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EXAMINER

ADAMS, EILEEN M

ART UNIT	PAPER NUMBER
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2481

NOTIFICATION DATE	DELIVERY MODE
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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No.	Applicant(s)	
	10/671,374	YOON ET AL.	
	Examiner	Art Unit	
	EILEEN ADAMS	2481	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1,4,5,17,21,22,24,25,27,31,33-35,42,50,52-54 and 59 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1,4,5,17,21,22,24,25,27,31,33-35,42,50,52-54 and 59 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 25 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION
RESPONSE TO ARGUMENTS

1. Examiner acknowledges the previous rejections to Claims 57 and 59 were improper / missing and Examiner will issue a second non final rejection. In an effort to move the application forward, Examiner includes suggestions to the claim amendments to overcome the prior art of record
2. Applicant's arguments and amendment filed on December 19, 2011 with respect to rejections all claims have been fully considered but are not persuasive. Accordingly, the rejections to said claims stand.
3. Regarding Applicant's first argument:

“First, Chung does not disclose or suggest any type of playback level information. That is, Chung's font setting is not the same as or even related to a right of a playback level (e.g., unrestricted, restricted, etc.).

Second, Chung does not preload additional contents differently based on a playback right level and region code information. Indeed, the alleged right to set a font in Chung does not affect how additional content are to be preloaded. Kelts does not cure these deficiencies of Chung.

Accordingly, amended claim 1 patentably defines over Chung and Kelts for first and second reasons” [Page 13, paragraph 2]

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Examiner respectfully asserts Applicant does not directly nor conceptually claim that the playback 'right' is directed toward a restriction or authorization.

Additionally, Chung does disclose a region code (See rejection contained herein). Accordingly, the rejections for said claims stand.

4. Regarding Applicant's second argument:

"Next, while paragraph [0054] of Kelts allegedly cures the acknowledged deficiency of Chung vis-h-vis a start-up file that includes server access information, Kelts does not disclose or suggest 'a list of external servers to be accessed.' That is, paragraph [0054] of Kelts describes XML configuration files for connecting to legacy databases, where the XML configuration files are accessed via the Internet by the entity that deploys the navigation system architecture. However, the authoring tools of Kelts do not include information about a list of external servers to be accessed. Accordingly, amended claim 1 patentably defines over Chung and Kelts for a third reason " [Page 13, paragraph 3]

Examiner respectfully asserts Kelts does disclose or suggest 'a list of external servers to be accessed'. In addition, Examiner has provided supporting evidence or explanation as to why the cited prior art references of record are obvious combinations that render Applicant's current claimed invention unpatentable.

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(See rejection contained herein). Accordingly, the rejections for said claims stand.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1, 4-5, 17, 21, 22, 24, 25, 27, 31, 33-35, 42, 50, 52-54, 56, and 59** are rejected under 35 U.S.C. 103(a) as being unpatentable over Chung et al. (US 2003/0086690 A1) in view of Kelts (US 2001/0030667 A1).

6. **Regarding Claim 1**, Chung discloses the invention as substantially claimed. Chung discloses **a method for setting a playback environment for a recording medium** (Fig. 9), **the method comprising:**

Chung does not disclose but Kelts discloses **loading by a device** (loading from the internet which requires a computer [0054]) **a start-up file into a temporary storage area, the start-up file including server access information** (start-up configuration files to include server map information to communicate with said server “management of navigation maps XML

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configuration files to allow easy connection to legacy databases, and utilities to make deployment of maps a simple process ... accessed via the Internet by the entity that deploys the navigation system architecture... communicate with the map system servers in a suitable manner to enable direct customization of interactive map interfaces” [0054]); **the server access list comprising a list of external servers to be accessed** (in at least Figs. 1, 4, and 5; [0056] [0098-99])

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Chung to include **loading by a device a start-up file into a temporary storage area, the start-up file including server access information the server access list comprising a list of external servers to be accessed**, as taught by Kelts to provide a navigation interface system configured in a layered architecture whereby the system is deployed in a centralized mode using remote servers and a list of said servers on a display device whereby the system of Chung would benefit from the additional features designed to enhance the display of useful information to the user and to make it easier for the user to view and locate appropriate content.

Chung discloses **setting by the device** (Fig. 2 reproducing apparatus [0049]) **a system environment according to system environment elements prior to reproducing A/V data recorded on the recording medium** (in at least

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Figs. 9; Fig. 10A, 1000-1030; Fig. 10B, 1001-1031; Fig. 11A, 1110-1200;

Paragraphs [0024, 0035, 0040, 0042] – preload prior to reproducing),

wherein the system environment elements correspond to at least one of playback right level (“Font-range is defined from AC00 to D7FF” [0078]) **information** (Paragraphs [0078-0080] - right to output determined font), **region code information** (in at least Figs. 6A, 6B - language code), **language information of additional contents associated with the A/V data** (“used in subtitles of a DVD video screen of the interactive data screen” [0067]), **and memory management information** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]),

wherein the memory management information identifies a space of the temporary storage area for storing at least one of the start-up file (Figs. 8 & 9 – management information correlated to regions for DVD-interactive data; where identification takes place for temporary buffer storage through the interactive data-interpreting engine 940 “Referring to FIG. 9, the interactive optical storage medium 900 includes information for controlling the interactive data ... A first memory 910 buffers the A/V data, which are compressed and read from the interactive optical storage medium 900. A second memory 920 stores the interactive data read from the interactive optical storage medium 900 ... An A/V data decoder 930 decodes the A/V data stored in the first memory 910. The interactive data-interpreting engine 940 ... used for interpreting the interactive data read from the second memory 920 or a third memory 960. When a

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command to preload the interactive data is included in the interactive data-interpreting engine 940, the interactive data-interpreting engine 940 preloads the interactive data into the second memory 920" [0089-0091]) **and the additional contents** (Fig. 5, A.HTM, B.HTM, C.HTM),

wherein the additional contents are to be preloaded in the temporary storage area and ("an HTML file i.e., A.HTM having data of the output screen A in relation to video reproduction information, a control information file B.PLD having preloaded information of data of the output screen B, an HTML file B.HTM having the data of the output screen B, an HTML file C.HTM having data of the output screen C, a control information file C.PLD having preloaded information of data of the output screen C, ...for use in the data of the output screen C are included in the interactive data directory ...when constituting a Korean displayable interactive data screen, a control information file i.e, ILD_FONT.PLD for reading basic fonts to be initially loaded" [0064]; See Fig. 5) **are differently designated according to the playback right level** ("Font-range is defined from AC00 to D7FF" [0078]) **information and the region code information** (in at least Figs. 6A, 6B -language code; Paragraphs [0078-0080] - right to output determined font for various languages; Fig. 5, Korean, Japanese, English);

determining by the device an availability of the additional contents based on control data received through a communication network from an external server, the external server ("When there is no font that is identical with the ID in the apparatus, the apparatus tries to takes a font from a web server or

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an optical information storage medium” [0076]; Claim 50) **storing the additional contents** (in at least Fig. 8, 800 - control information; Fig. 10A, 1000; Fig. 10B, 1001; Fig. 11A, 1110; Paragraphs [0063, 0087] - further clarified in that the system in Figs. 10A, 10B and 11A determine which fonts are there to load, thus determining availability of additional contents; Paragraph [0041,0076,0092]; see Fig. 5, DVD interactive directory with associated language directories); **and the control data, the control data listing the additional contents to be preloaded** (“an HTML file i.e., A.HTM having data of the output screen A in relation to video reproduction information, a control information file B.PLD having preloaded information of data of the output screen B, an HTML file B.HTM having the data of the output screen B, an HTML file C.HTM having data of the output screen C, a control information file C.PLD having preloaded information of data of the output screen C, ...for use in the data of the output screen C are included in the interactive data directory ...when constituting a Korean displayable interactive data screen, a control information file i.e, ILD_FONT.PLD for reading basic fonts to be initially loaded” [0064]; See Fig. 5)

preloading by the device (Fig. 2 – see analysis contained herein) **the additional contents in a temporary storage area** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031 ; Paragraphs [0024, 0035, 0040, 0042]) **as a result of determined step** (Paragraphs [0063, 0087]; Fig. 10A, 1030; Fig. 10B, 1021,1031 ; Fig. 11A, 1121,1160), **the additional contents received from the recording medium or the external server**

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(in at least FIG. 5 – contents loaded from optical storage medium [0060])

and reproducing, by the device the A/V data and the additional contents loaded in the temporary storage area according to the control data (in at least Figs. 2, 9, 950; Fig. 10A, 1040,1050; Fig. 10B, 1041, 1051; Paragraphs [0024,0092]),

wherein said additional contents includes at least one of an HTML file, an image file and a sound file (Fig. 5 - various languages having html document files; Paragraphs [0062-0064]).

7. **Regarding Claim 4**, Chung teaches **the method of claim 1, further comprising: preloading** (See said analysis for Claim 1) **the control data in the temporary storage area** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031 ; Paragraphs [0024,0035,0040,0042]), **prior to the A/V data being reproduced** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031; Paragraphs [0024,0035,0040,0042]).
8. **Regarding Claim 5**, Chung teaches **the method of claim 1, further comprising: storing the control data into the temporary storage area prior to preloading the additional contents in the temporary storage area** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]).

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9. **Regarding Claim 17, Chung teaches the method of claim 1, wherein at least a portion of the additional contents is preloaded in the temporary area in advance of reproducing the A/V data** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]), **so that the A/V data can be seamlessly reproduced in synchronization with respective additional contents** (see Abstract, and in at least Paragraphs [0062,0073,0081,0083]).
10. **Regarding Claim 21, Chung teaches the method of claim 1, wherein the step of preloading** (See said analysis for Claim 1) **the additional contents comprises: setting a language of the additional contents** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]) **based on the language information** (See said analysis for Claim 1 – region code)

and allocating the space in the temporary storage area based on the memory management information (Figs. 8 & 9 – management information correlated to regions for DVD-interactive data; where identification takes place for temporary buffer storage through the interactive data-interpreting engine 940 “Referring to FIG. 9, the interactive optical storage medium 900 includes information for controlling the interactive data ... A first memory 910 buffers the A/V data, which are compressed and read from the interactive optical storage medium 900. A second memory 920 stores the interactive data read from the interactive optical storage medium 900 ... An A/V data decoder 930 decodes the

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A/V data stored in the first memory 910. The interactive data-interpreting engine 940 ... used for interpreting the interactive data read from the second memory 920 or a third memory 960. When a command to preload the interactive data is included in the interactive data-interpreting engine 940, the interactive data-interpreting engine 940 preloads the interactive data into the second memory 920" [0089-0091]; in at least Fig. 8, 800 - control information; Fig. 10A, 1000; Fig. 10B, 1001; Fig. 11A, 1110; Paragraphs [0063,0087- 0089]).

11. **Regarding Claim 22**, Chung teaches **the method of claim 21, further comprising: processing setup information designated within the control data** (Paragraphs [0042,0046,0061,0063-0065]), **the setup information comprising information related to a menu screen** (Paragraph [0061]).
12. **Regarding Claim 24**, Chung teaches **the method of claim 1, wherein the step of reproducing the A/V data comprises: synchronously reproducing** (Fig. 7 and Fig. 9) **the additional contents and the A/V data** (Paragraphs [0040,0092]).
13. **Regarding Claim 25**, Chung teaches **the method of claim 1, wherein the step of preloading** (See said analysis for Claim 1) **the additional contents comprises: preloading the additional contents in the temporary storage area in advance of reproducing the A/V data recorded on the recording**

medium (see Abstract; Paragraphs [0060,0064;0087,0088,0090]).

14. **Regarding Claim 27**, Chung teaches **the method of claim 1, wherein new additional content is preloaded in the temporary storage area** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]) **as storage space in the temporary storage area becomes available when the additional content stored in the temporary storage area is reproduced** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]; see Fig. 11A).

15. **Regarding Claim 31**, Chung teaches **A non-transitory computer-readable recording medium** (as further clarified in at least Fig. 9, 900; Abstract, Paragraphs [0021+]) **comprising instructions configured to cause a device to perform the following steps:**

load a start-up file into a temporary storage area (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062,0064]);

Chung does not disclose but Kelts discloses **wherein the start-up file includes server access information** (See rationale and motivation as applied to Claim 1), **the server access information comprising a list of external servers to be accessed** (See said analysis for Claim 1)

Chung discloses **set a system environment according to system environment elements prior to reproducing audio/video (A/V) data recorded on the recording medium** (See said analysis for Claim 1), **wherein the system**

environment elements correspond to at least one of playback right level

(See said analysis for Claim 1) **information, region code information,**

language information of additional contents associated with the A/V data,

and memory management information (See said analysis for Claim 1),

wherein the memory management information identifies a space of the temporary storage area for storing at least one of the start-up file and the additional contents (See said analysis for Claim 1),

and wherein the additional contents are to be preloaded in the temporary storage area and (See said analysis for Claim 1) **are differently designated according to the playback right level** (See said analysis for Claim 1) **information and the region code information** (See said analysis for Claim 1);

determine an availability of the additional contents based on control data received through a communication network from an external server, the external server storing the additional contents (See said analysis for Claim 1) **and the control data, the control data listing the additional contents to be preloaded** (See said analysis for Claim 1);

preload () the additional contents in the temporary storage area (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031; Paragraphs [0024, 0035, 0040, 0042]) **as a result of the determining step** (Paragraphs [0063,0087]; Fig.

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10A, 1030; Fig. 10B, 1021,1031; Fig. 11A, 1121,1160) **the additional contents received from the recording medium or the external server (**

and reproduce the A/V data and the additional contents loaded in the temporary storage area according to the control data (in at least Fig. 9, 950; Fig. 10A, 1040,1050; Fig. 10B, 1041,1051; Paragraphs [0024,0092]), **wherein said additional contents includes at least one of an HTML file, an image file and a sound file** (Fig. 5 - various languages having html document files; Paragraphs [0062-0064]).

16. **Regarding Claim 33**, Chung teaches **the computer-readable medium of claim 31, wherein the control information comprises an address of a content provider remotely accessible through a communications network** (Paragraph [0064,0065,0070,0076,0092]; Claim 50).
17. **Regarding Claim 34**, Chung teaches **the computer-readable medium of claim 31, wherein the start-up file comprises access information for accessing the additional contents** ("A control information file i.e., DVD_ENAV. IFO having control information used for constituting an initial interactive screen is included in the interactive data directory 510. Further, an HTML file (i.e., A.HTM) having data of the output screen A in relation to video reproduction information, a control information file B.PLD having preloaded information of data of the output screen B" [0063-0064])

18. **Regarding Claim 35**, Chung teaches **the computer-readable medium of claim 34, wherein the start-up file is preloaded into a memory within the device, before the A/V data is reproduced by the device** (see Abstract; Paragraphs [0060, 0063-0064; 0087, 0088, 0090]).

19. **Regarding Claim 42**, Chung teaches **the computer-readable medium of claim 31, wherein the start-up file is stored as a markup language file** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062-0064]).

20. **Regarding Claim 50**, Chung teaches **a medium player system comprising: a temporary storage configured to store a start-up file** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062, 0064]);

Chung does not disclose but Kelts discloses **a temporary storage with a predetermined capacity** (Fig. 27, 2736 - video memory; Paragraph [0273] - for example video memory of 8 Megabytes)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Chung to include **a temporary storage with a predetermined capacity**, as taught by Kelts to allow high speed information storage in short amounts of time as in any buffer size while making use of a readily available component whereby the system of Chung

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would benefit when monitoring of temporary storage capacity is a critical feature and whereby Kelts discloses additional configurations for storage devices which would add to the versatility of Chung.

Chung does not disclose but Kelts discloses **the start-up file including server access information which comprises a list of external servers to be accessed** (See rational and motivation as applied to Claim 1);

Chung discloses **an audio/video (A/V) player engine configured to reproduce A/V data recorded on a medium** (Fig. 9);

an enhanced player engine configured to reproduce additional contents associated with the A/V data (See said analysis for Claim 1) **based on system environment elements recorded on the medium or received** (Paragraphs [0040,0092]; and in at least Fig. 9, 940; Fig. 10A, 1000; Fig. 10B, 1001; Fig. 11A, 1110; Paragraphs [0063,0087]) **through a communication network from an external server, the system environment elements being used for the additional contents** (Paragraph [0041, 0076, 0092]; Claim 50), **the system environment elements being included in the start-up file** (in at least Fig. 5, A.HTM under the KOR directory; Paragraphs [0062,0064]) **and comprising at least one of information associated with a-playback right level** (See said analysis for Claim 1) (Paragraphs [0078-0080] - right to output determined font), **a region code** (in at least Figs. 6A, 6B - language code), **a language of the additional contents and memory management information** (Fig. 5 - Korean, Japanese, English; Paragraphs [0067-0068]), **the memory**

management information identifying a space of the temporary storage for storing at least the start-up file and the additional contents (Fig. 8 -

management information correlated to regions for DVD-interactive data; See said analysis for Claim 1); **and a controller** (Figs. 10A, 10B, 11A- controller

performing steps outlined in such figures; Fig. 9 - to screen output unit; Claims 67 and 68) **configured to set the system environment elements prior to**

reproducing the A/V data (See said analysis for Claim 1),

control the temporary storage according to the memory management information (See said analysis for Claim 1),

and control the A/V player engine and the enhanced player engine to synchronously (See said analysis for Claim 1) **reproduce the A/V data** (See said analysis for Claim 1) **and the associated additional contents** (see Abstract, and in at least Paragraphs [0062,0073,0081,0083]),

wherein the start-up file further comprises a plurality of information items for designating additional content categories, the plurality of information items including playback right level (See said analysis for Claim 1) **information or region code information** (Paragraphs [0078-0080] - right to output determined font for various languages; Fig. 5, Korean, Japanese, English)

wherein said additional contents includes at least one of an HTML file, an image file and a sound file (Fig. 5 - various languages having html document files; Paragraphs [0062-0064]).

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21. **Regarding Claim 52**, Chung teaches **the player system of claim 50, wherein the environment elements comprise information about a location where the additional contents can be accessed** (Fig. 5, A.HTM, B.HTM, C.HTM), **and wherein the controller is configured to access the additional contents based on the information about the location** (Fig. 5, A.HTM, B.HTM, C.HTM).
22. **Regarding Claim 53**, Chung teaches **the player system of claim 50, wherein the controller is configured to store the environment elements in the temporary storage, prior to the A/V data being reproduced** (in at least Figs. 9; Fig. 10A, 1030; Fig. 10B, 1021,1031; Paragraphs [0024,0035,0040,0042]).
23. **Regarding Claim 54**, Chung teaches **the player system of claim 50, wherein the start-up file comprises information about the additional contents** (see Abstract; Paragraphs [0060,0064;0087,0088,0090]), **and wherein the controller is configured to identify the information and to load the additional contents into the temporary storage before the A/V data is reproduced** (See said analysis for Claim 1 – preloaded contents; see also Paragraphs [0089,0090] - AV data allocated in first memory whereas interactive data stored in a second memory; Fig. 9) **according the identified information** (Fig. 9; Fig. 10A, 1000-1030 - loading fonts to be preloaded into memory; 10B, 1011-1031; Fig. 11A, 1120-1200).

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24. **Regarding Claim 56**, Chung teaches **the player system of claim 50**,

Chung does not disclose but Kelts discloses **wherein the temporary storage area is in a semiconductor storage device** (Paragraph [0100]-semiconductor memory) (The motivation that applied in Claims 1 and 50 applies equally to Claim 56)

25. **Regarding Claim 59**, Chung teaches **the player system of claim 50**, **further comprising:**

Chung does not disclose but Kelts discloses **a network interface configured to communicate with the external server in order to receive information from the external server and send information to the external server and data received through the network interface from the external server** (See rational and motivation as applied to Claim 1 – see also Figs. 1 & 2)

Chung discloses **wherein the controller** (Fig. 9 - interactive data-interpreting engine 940 [0091]) **is configured to determine an availability of the additional contents based on control data, the control data listing the additional contents to be preloaded** (See said analysis for Claim 1), **and preload the additional contents in the temporary storage area, the additional contents received from the recording medium or the external server** (See said analysis for Claim 1).

Conclusion

26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eileen Adams whose telephone number is (571) 270-3688. The examiner can normally be reached on Mon-Thurs from 7:30-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-270-4688.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/EILEEN ADAMS/
Examiner, Art Unit 2481

/WILLIAM C. VAUGHN JR/

Supervisory Patent Examiner, Art Unit 2481